8. California Evaporative Emission Control

*Charcoal canister similar to VS750.

CLUTCH/TRANSMISSION

The VX800 is equipped with 5-speed transmission and a cable operated clutch. Differences from VS750 clutch/transmission:

1.Clutch

*Addition of "back torque limiter" system.

-Same function as VS1400 system.

-Reduces the amount of engine brake transferred to the rear wheel during deceleration.

-Minimizes potential rear wheel "hop".

2.Countershaft

*Length increased to accomodate back-torque limiter.

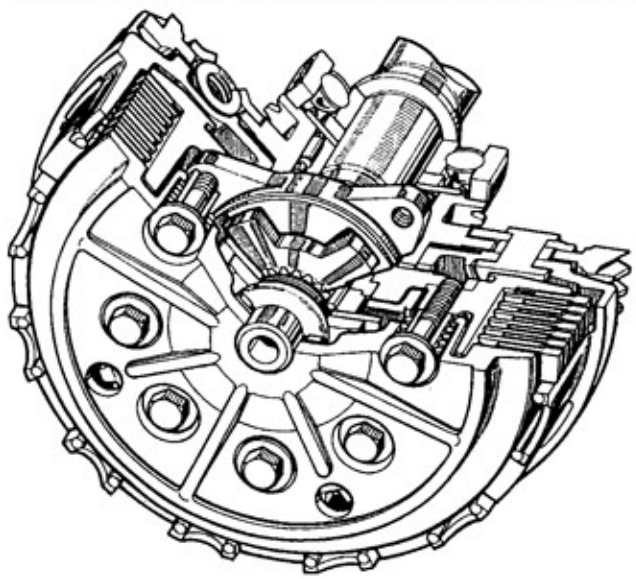
Back Torque Limiter Operation

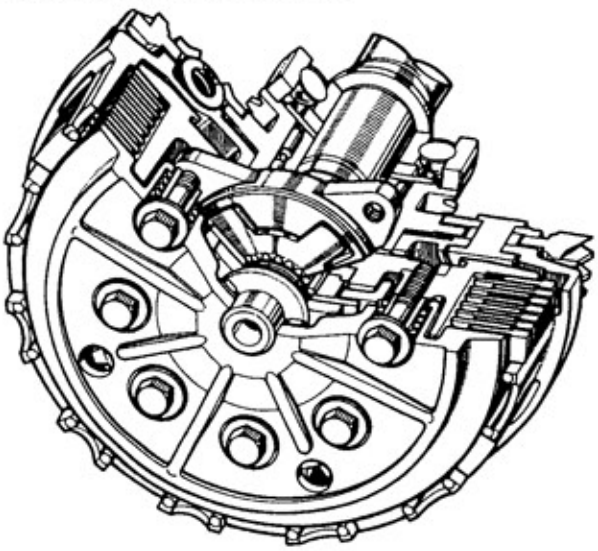
A. Two different length springs are used in the VX800 clutch. Four long springs are bolted to the clutch hub and four short springs are bolted to a "spring slider". The spring slider permits the tension of the shorter springs to be varied, allowing the clutch to operate at 100% during acceleration and at 60% during deceleration.

B. When engine power is applied to the countershaft, a cam splined to the countershaft engages the spring slider, which then keeps tension against the shorter springs.

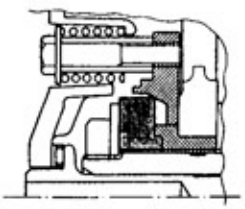
C. The combined tension of the short and long springs against the pressure plate keeps the clutch operating at 100%.

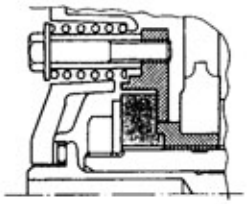
D. Under deceleration the cam disengages from the spring slider which reduces the tension of the shorter springs. This also reduces the force of the pressure plate allowing the clutch to operate at only 60% capacity.





ENGINE POWER APPLIED





DECELERATION